

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

jc996 U.S. PTO
09/992028
11/26/01

In re Patent Application of

FIRMAN, K.

Atty. Ref.: 604-617

Serial No. Unassigned

Group:

Filed: November 26, 2001

Examiner:

For: A POLYNUCLEOTIDE MOTOR, A MOTOR SYSTEM,
THEIR PREPARATION AND USES

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November 26, 2001

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Attached is a completed Form PTO-1449 listing references in connection with this application. Also enclosed is a copy of each of those references, together with a copy of a UK Search Report and Molecular Motor Explanation document.

The Examiner is requested to initial the attached PTO-1449, and to return a copy of the initialed document to the undersigned as an indication that the listed references have been considered and made of record.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: _____

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INFORMATION DISCLOSURE STATEMENT

APPLICANT

FIRMAN, Keith

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U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

✓	A1	Amitsur, M. <i>et al.</i> , "HSD restriction – modification proteins partake in latent anticodon nuclease", The EMBO Journal 11(8), 3129-3134 (1992)
✓	A2	Davies, G. P. <i>et al.</i> , "EcoKI with an amino acid substitution in any one of seven DEAD-box motifs has impaired ATPase and endonuclease activities", Nucleic Acids Research 26(21), 4828-4836 (1998)
✓	A3	Firman, K. <i>et al.</i> , "Measuring motion on DNA by the type I restriction endonuclease <i>EcoR124I</i> using triplex displacement", The EMBO Journal 19(9), 2094-2102 (2000)
✓	A4	Holubová, I. <i>et al.</i> , "Localization of the Type I Restriction-Modification Enzyme <i>EcoKI</i> in the Bacterial Cell", Biochemical and Biophysical Research Communications 270, 46-51 (2000)
✓	A5	Janscak, P. <i>et al.</i> , "Analysis of the subunit assembly of the type IC restriction-modification enzyme <i>EcoR124I</i> ", Nucleic Acids Research 26(19), 4439-4445 (1998)
	A6	Janscak, P. <i>et al.</i> , "DNA translocation blockage, a general mechanism of cleavage site selection by type I restriction enzymes", The EMBO Journal 18(9), 2638-2647 (1999)
✓	A7	Janscak, P. <i>et al.</i> , "Single amino acid substitutions in the HsdR subunit of the type IB restriction enzyme <i>EcoAI</i> uncouple the DNA translocation and DNA cleavage activities of the enzyme", Nucleic Acids Research 27(13), 2638-2643 (1999)
✓	A8	Janscak, P. <i>et al.</i> , "The Type I Restriction Endonuclease R. <i>EcoR124I</i> : Over-production and Biochemical Properties", J. Mol. Biol. 257(5), 977-991 (1996)
✓	A9	Levitz, R. <i>et al.</i> , "The optional <i>E. coli prr</i> locus encodes a latent form of phage T4-induced anticodon nuclease", The EMBO Journal 9(5), 1383-1389 (1990)

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FIRMAN, Keith

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

✓	A10	Mernagh, D. R. <i>et al.</i> , "Protein-Protein and Protein-DNA Interactions in the Type I Restriction Endonuclease R.EcoR124I", Biol. Chem. 379 , 497-503 (1998)
✓	A11	Morad, I. <i>et al.</i> , "Functional Expression and Properties of the tRNA ^{Lys} -specific Core Anticodon Nuclease Encoded by <i>Escherichia coli prrC</i> ", The Journal of Biological Chemistry 268 (36), 26842-26849 (1993)
✓	A12	Panne, D. <i>et al.</i> , "The McrBC Endonuclease Translocates DNA in a Reaction Dependent on GTP Hydrolysis", J. Mol. Biol. 290 (1), 49-60 (1999)
✓	A13	Penner, M. <i>et al.</i> , "Phage T4-coded Stp: Double-Edged Effector of Coupled DNA and tRNA-Restriction Systems", J. Mol. Biol. 249 (5), 857-868 (1995)
✓	A14	Schafer, D. A. <i>et al.</i> , "Transcription by single molecules of RNA polymerase observed by light microscopy", Nature 352 (6334), 444-448 (1991)
✓	A15	Shterman, N. <i>et al.</i> , "Cleavage of the HIV replication primer tRNA ^{Lys} in human cells expressing bacterial anticodon nuclease", Nucleic Acids Research 23 (10), 1744-1749 (1995)
✓	A16	Szczeklun, M. D. <i>et al.</i> , "Repercussions of DNA tracking by the type IC restriction endonuclease EcoR124I on linear, circular and catenated substrates", The EMBO Journal 15 (22), 6335-6347 (1996)
✓	A17	Tyndall, C. <i>et al.</i> , "The <i>Escherichia coli prr</i> Region Encodes a Functional Type IC DNA Restriction System Closely Integrated with an Anticodon Nuclease Gene", J. Mol. Biol. 237 , 266-274 (1994)
✓	A18	Wang, M. D. <i>et al.</i> , "Force and Velocity Measured for Single Molecules of RNA Polymerase", Science 282 (5390), 902-907 (1998)
✓	A19	Weiserova, M. <i>et al.</i> , "Isolation of a Non-Classical Mutant of the DNA Recognition Subunit of the Type I Restriction Endonuclease R.EcoR124I", Biol. Chem. 379 , 585-589 (1998)
✓	A20	Yin, H. <i>et al.</i> , "Transcription Against an Applied Force", Science 270 (5242), 1653-1657 (1995)
✓	A21	Zinkevich, V. <i>et al.</i> , "The HsdR subunit of R-EcoR124II: cloning and over-expression of the gene and unexpected properties of the subunit", Nucleic Acids Research 25 (3), 503-510 (1997)
	A22	Ramsden, J.J. and Dreider, J., "Kinetics of the interaction between DNA and the type IC restriction enzyme EcoR124/3I", Biochemistry 35 , 3746-3753 (1996)
	A23	Kulik, E.M. and Bickle, T.A., "Regulation of the Activity of the type IC EcoR124I Restriction Enzyme", J. Mol. Biol. 264 , 891-906 (1996)

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Form PTO-FB-A820 (also PTO-1449)